Digital Cinema Projector Series

NC3240S projector

Using DLP Cinema® technology from Texas Instruments®, NEC's improved digital cinema projectors deliver exceptional image quality, brightness, resolution, contrast and colorimetry. NEC's award-winning digital cinema projectors are designed with a focus on quality and ease-of-use for movie theatres of all sizes: NC3240S for the largest cinema screens (up to 105-feet wide*) and medium-sized screens**. Together with the new, optional integrated NEC 2K/4K Media Block and NEC Local Storage Server, they provide complete and compelling industry solutions for showing digital movies.

INDUSTRY-LEADING INTEGRATED MEDIA BLOCK/ LOCAL STORAGE SERVER - ONE-STOP SOLUTION

- NEC optional 2K/4K Integrated Media Block (IMB) and Local Storage Server
  - NEC is the only manufacturer in the market to offer a DLP cinema projector/ server solution developed completely in-house
  - The IMB's internal design allows for content management, screen management and higher security, providing greater peace of mind
  - Designed to work with other leading providers of 2K/4K IMB and local storage servers as NEC test for compatibility

MINIMAL COST OF OWNERSHIP / SIMPLE MAINTENANCE

- Quick and easy components/parts replacement with modular electronics
  - Clear electronic layout and wiring
  - Easy prism replacement can be completed in only a few minutes
  - Truly modular electronics; custom DMD shielding gaskets and patented reflector design help reduce maintenance costs
- Industry-leading system service and support
  - Quick and easy troubleshooting by self-diagnosis with built-in system test and error log analisys
  - Built-in web server allows you to access and control projectors from any authorized web browser
  - Remotely update firmware via network from long distances

BAR-SETTING RELIABILITY

- Uniquely designed cooling system, the first of its kind in the industry, creates positive air pressure internally to prevent contaminates such as oil and dust from entering the main chassis. Lamp cooling air flow is separate from the optics and electronics in the main chassis.
- Custom DMD shielding protects the projectors from dust/oil contaminates and provides optimal picture quality

BEST-SUITED PROJECTOR FOR 3D APPLICATIONS

- The NC3240S is the brightest digital cinema projector, boasting 31,000 lumens***
- 3D presentation using a single projector - Support for all major suppliers of 3D accessories, including:
  - special 3D control connector
  - optional automatic turret to mount polarizers in front of lens when displaying 3D content

UNRIVALED EASE OF USE

- One-Touch Operation and Memory Functions - Direct-select buttons for eight stored projector configurations; simplify display of different aspect ratios through pre-set lens shift position, zoom and focus, and lamp power settings.
- Auto Lamp Brightness Control - Maintains constant brightness of the lamp by adjusting the lamp power as the lamp ages. These projectors optimize lamp performance and ensure the brightest and most uniform image possible for the life of the lamp.
- Trouble-Free Lamp Replacement - Maintenance personnel can replace lamps simply from the back of the projector even in a cramped space
- Intuitive keypad layout provides for easy operator control

* Subject to installation conditions. Maximum screen width is under the conditions of 14-ft-L luminance @screen gain 1.8

** NC3240S consists of separate projector head and lamp power supply unit, of which two types are available: 7kW for large screens and 4 kW for medium-sized screens. 4kW and 7kW lamp power supply units can be used with NC3200S as well as NC3240S projector head.

*** Color corrected/center lumens

Specifications for NC3240S

MODEL	NC3240S
Projection Method	3-chip DMD reflection method
Primary Lenses	For 1.38" DLP Chip: 1.13 to 1.31:1 zoom / 1.13 to 1.66:1 zoom* / 1.30 to 1.85:1 zoom / 1.44 to 2.16:1 zoom / 1.63 to 2.71:1 zoom / 1.95 to 3.26:1 zoom / 2.71 to 3.89:1 zoom / 3.87 to 5.40:1 zoom
Lens Adjustment Functions	Motorized focus, zoom, horizontal/vertical shift, light shutter (dowser) / Lens memory stores lens setting (shift/zoom/focus) / Range of shift is dependent on lens
Light Output	NC-32PS01 (7kW LPSU): 31,000 lumens (when using USHIO DXL-70SN 7kW lamp**) NC-32PS02 (4kW LPSU): 22,500 lumens when using Ushio DXL-41SN 4kW lamp)
Supported Screen Size (maximum)	NC-32PS01 (7kW LPSU): 32m / 105 ft.*** NC-32PS02 (4kW LPSU): 22m / 72 ft.***
Contrast Ratio	2000:1 (full on/off) (<= 2200:1) when mounting small iris (included in projector box)
Lamp Bulbs	NEC certified digital Xenon lamp bulbs NC-32PS01 (7kW LPSU): 4.5kW/6kW/7kW lamp bulb NC-32PS02 (4kW LPSU): 4kW lamp Standard film projector lamp bulbs listed by NEC
DMD Specifications	1.38" DLP chip, 12º tilt angle 4096 x 2160 pixels
Cooling Method	• Liquid cooling inside, air cooling with dust-preventing electrostatic filter • Total thermal dissipation: 35850 BTU with NC-32PS01/7kW lamp (7kW LPSU), 19800 BTU with NC-32PS02/4kW lamp (4kW LPSU) • Projector exhaust: Top mounted • Demand of exhaust duct: NC-32PS01 (7kW LPSU): 565CFM (16m3/min) / NC-32PS02 (4kW LPSU): 460CFM (13m3/min)
External Controls	LAN port [RJ-45] x 1 / USB port [Type A] x 1 / Serial port (RS-232C) [D-sub (9-pin) x 1 / General Purpose I/O [D-sub (37-pin)] x 1 / General purpose I/O for 3D (D-sub [15-pin] x 1) / Remote control connector (M3) x 1
Input Terminals	HD-SDI port [BNC] x 4 / DVI port [DVI-digital] x 2
Fan Noise	NC-32PS01 (7kW LPSU): 66dB NC-32PS02 (4kW LPSU): 60dB
Power Supply Voltage	Projector power supply unit: 100 to 240V AC, 50/60Hz, single phase NC-32PS01 (7kW LPSU): 200 to 230V / 380 to 415V AC, 50/60Hz, 3 phases NC-32PS02 (4kW LPSU): 200 to 240V AC / 50/60Hz, single phase
Rated Input Current	Projector head: 8A-4.2A NC-32PS01 (7kW LPSU): 28A@200 to 230V / 16A@380 to 415V NC-32PS02 (4kW LPSU): 25A
Power Consumption	NC-32PS01 (7kW LPSU): 9700W / Projector head: 800W / Total: 10,500W NC-32PS02 (4kW LPSU): 5000W / Projector head: 800W / Total: 5800W
External Dimensions (W x D x H)	Projector head: 27.6 x 44.3 x 19.8 in. / 700 x 1124 x 503mm NC-32PS01 (7kW LPSU): 23.4 x 15.7 x 17.8 in. / 594 x 398 x 452mm NC-32PS02 (4kW LPSU): 23.4 x 15.7 x 15.5 in. / 594 x 398 x 394mm (TBD) *Excluding lens, lens hood, exhaust stack and handle. Including feet.*
Weight	Projector head: 213.8 lbs. / 97 kg NC-32PS01 (7kW LPSU): 115 lbs. / 52 kg NC-32PS02 (4kW LPSU): 90.4 lbs. / 41kg *Excluding lens and lamp bulb.*
Environment	Operational temperatures: 50°F - 95°F / 10°C - 35°C Humidity: 10% - 85% (non-condensing) Storage temperatures: 14°F - 122°F / -10°C - 50°C Humidity: 10% - 85% (non-condensing)
Regulations	USA: UL60950 FCC Class A / Canada: CSA60950 ICES-003 Class A
Standard Equipment	Lens holder to attach to primary lens, user manual, small iris
Optional Accessories	Built-in alternative content processor (MM3000B), optional input boards for alternative content processor (MM-SDI-E/MM-Video-E), air filter (NC-80AF01/NC-80AF02), Internal Media Block (NC-80MB01), Local Storage Server (NC-80SS01), input terminals (NC-80DS01/NC-80LB01)
Limited Warranty	2 years, parts and labor

* Available in Summer 2011
** Color-corrected / center lumens
*** Subject to installation conditions. Maximum screen size is under the conditions of 14-ft-L @ screen

Media Block (NC-80MB01)

Item	Content			Remarks
Performance	Video		2K & 4K DCI Format 2048x1080 2D & 3D 4096x2160 2D	
	Audio		16channels, 24bits, 48k/96kHz Linear PCM	
	Security		DCI 1.2, FIPS140-2, Watermark	
	SMS		From Network PC and LSS(NC-80SS01)	
Status Indication	LED	5 Modes	PLAY MODE, FIPS, LINK, MARRIAGE, BATTERY	
Terminals	Gigabit Ethernet	RJ-45	DCP data	Front Panel
			Control, SMS	via projector Ethernet connector
	Digital Audio Out	D-sub 25	AES-3, Balanced Digital 16 channels	Original Pin assignments
Environmental	Ambient Temp.	Operational	5- 35 [deg C]	
		Storage	-10 - 50 [deg C]	
	Humidity	Operational	10 - 90[%], without moisture dew and Oil mist	
		Storage	10 - 90[%], without moisture dew and Oil mist	
Reliability & Serviceability	MTBF		more than 10,000[H]	
	MTTR		Within 2[H]	
Regulations	USA: UL60950 FCC Class A / Canada: CSA60950 ICES-003 Class A			

Local Storage Server (NC-80SS01)

Item	Content			Remarks
CPU	Intel Core2Duo		1	
Memory	DDR2 ECC	DIMM 1GB	1	
Storage	HDD	SATA750GB	3	For Data, RAID5(Software), Hot-Swappable
Terminal	Gigabit Ethernet	RJ-45	1	For DCP data
		RJ-45	1	For Control and SMS
		RJ-45	1	For Automation
	USB2.0	Type-A	8	
	RS-232C	D-sub 9	2	For UPS
Power Supply	Hot-Swappable Redundant Power		2	AC100-240V ±10%, 50/60Hz, 200VA
Dimensions & Weight	Dimensions (WxDxH)			19 x 21.7 x 3.4 in. /483 x 550 x 86.7mm (2U rack-mount)
	Weight			43.8 lbs. / 19.9 kg (inc. rack-mount rail - 3 lbs. / 2.9 kg)
Environmental	Ambient Temp.	Operational		5 - 35[deg C]
		Storage		-10 - 50 [deg C]
	Humidity	Operational		10 - 85[%], without moisture dew and Oil mist
		Storage		10 - 85[%], without moisture dew and Oil mist
Reliability & Serviceability	MTBF			more than 10,000[H]
	MTTR			Within 2[H]
Operating System	Linux			Cent OS
Maintenance Parts	Air Filter	Life 1 year		Cleaning : Every month, Exchange : Every year
	HDD	Life 30,000[H](TBD)		
Regulations	USA: UL60950-1 FCC Part 15 Class A / Canada: CSA60950-1 ICES-003 Class A			

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